

ABSTRACT

This invention relates to an optical device (1) including a cavity (2) for which at least part is ellipsoidal with a first focus ( $F_1$ ) and a second focus ( $F_2$ ), the device including means of presenting a medium  
5 containing components to be analysed in the cavity at the first focus, the device also including means of transporting an excitation light beam in the cavity along a path also passing through the first focus ( $F_1$ ) to illuminate the medium at the first focus. The  
10 ellipsoidal part of the cavity includes a wall reflecting light emitted by the medium in response to the excitation light beam, the device including means (5) of collecting said emitted light at the second focus ( $F_2$ ).